

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R														
1	FOOD WEB (PRG) MODEL REQUIRED INPUTS																															
2	PARAMETER DESCRIPTION	Symbol	Units	General	PHY (2)	ZOO (3)	BIF (4)	BIC (5)	EIC (6)	SCL (7)	LSS (8)	CAR (9)	SMB (10)	NPM (11)																		
<b>Physical / Chemical Parameters</b>																																
4	Octanol-water partition coefficient	KOW	kg/L	5.63	Kow - chemical specific																											
5	Organic carbon content of sediment	OCSS	unitless	0.017137207	Windward 2005																											
6	Henry's Law constant	H	Pa.m <sup>3</sup> /mol	1	Value cancels out																											
7	Mean water temperature	TW	C	13.69418928	ODEQ data - year round																											
8	Concentration of suspended solids	CPW	kg/L	1.40E-05	Windward 2005 Peristaltic pump data near bottom only																											
9	Concentration in water (filtered water)	CWT	ng/L	0.0800	Windward 2005- column data only - chemical specific																											
10	Bioavailable concentration in water	CWB	ng/g	7.66E-05	model calculation- based on column water data and DOC																											
11	Concentration in sediment solids	CST	ng/g	181.0435834	SWAC -Windward - chemical specific																											
12	Concentration in sediment porewater	CSD	ng/g	7.08E-02	model calculation																											
13	Density of sediment OC	DOCS	kg/L	1	Previous model used value of 0.9- Susie says we should elimin																											
14																																
15	<b>Bioavailable Fraction Parameters</b>																															
39																																
40	<b>Organism-Specific Rate Constants</b>																															
41	Growth rate constant	KG	1/d	0.093635253																												
42	Metabolic rate constant	KM	1/d	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0														
43																																
44																																
45	Tissue Concentration Outputs	CB	ug/kg	0.597	0.596	60.516	81.358	58.287	220.160	410.659	514.848	586.345	481.938																			
46	Measured tissue concentration		ug/kg			4.2		1	9.5	11	13	10																				
47	SPAF				14.4			58.3	23.2	37.3	39.6	58.6				38.6																
48	Percent difference				1340.9			5728.7	2217.5	3633.3	3860.4	5763.5																				

Cell: E45  
Comment: Forecast: CB phy

Cell: F45  
Comment: Forecast: CB zoo

Cell: G45  
Comment: Forecast: CB BIF

Cell: H45  
Comment: Forecast: CB BIC

Cell: I45  
Comment: Forecast: CB EIC

Cell: J45  
Comment: Forecast: CB scl

Cell: K45  
Comment: Forecast: CB iss

Cell: L45  
Comment: Forecast: CB car

Cell: M45  
Comment: Forecast: CB smb

Cell: N45  
Comment: Forecast: CB npm

	A	B	C	D	E	F	G	H	I	J	K	L
1	PREY >	(1) Sediment solids (particles)	(2) Phytoplankton	(3) Zooplankton	(4) Benthic invertebrate (filter feeder)	(5) Benthic invertebrate (consumer)	(6) Epibenthic invertebrate (consumer)	(7) Sculpin (forage)	(8) Largescale sucker (benthivore)	(9) Carp (omnivore)	(10) Smallmouth bass (smi piscv)	(11) Northern pikeminnow (lrg piscv)
2	(1) Sediment solids (particles)											
3	(2) Phytoplankton											
4	(3) Zooplankton		1.00									
5	(4) Benthic invertebrate (filter feeder)	0.779	0.221									
6	(5) Benthic invertebrate (consumer)	0.909	0.091									
7	(6) Epibenthic invertebrate (consumer)	0.0241	0.1137	0.175	0.219	0.467						
8	(7) Sculpin (forage)	0.03324	0	0.02738	0.3249	0.528	0.0866					
9	(8) Largescale sucker (benthivore)	0.1486	0.150	0.1960	0.073	0.268	0.165	0				
10	(9) Carp (omnivore)	0.0417	0.335	0	0.142	0.481	0	0	0			
11	(10) Smallmouth bass (smi piscv)	0	0	0	0	0.2439	0.170	0.586	0	0		
12	(11) Northern pikeminnow (lrg piscv)	0	0.0847	0	0.0558	0.355	0.295	0.209	0	0	0	

Parameter Type	Parameter Description	Symbol	Units	total chlordan
Chemical-specific	Octanol-water partition coefficient	KOW	kg/L	6.42
Chemical-specific	Concentration in water (filtered water)	CWT	ng/L	0.029
Chemical-specific	Concentration in sediment solids	CST	ng/g	2.4
Org. rate constants	BIF - Metabolic rate constant	BIF-KM	1/d	0
Org. rate constants	BIC - Metabolic rate constant	BIC-KM	1/d	0
Org. rate constants	EIC - Metabolic rate constant	EIC-KM	1/d	0
Org. rate constants	SCL - Metabolic rate constant	SCL-KM	1/d	0
Org. rate constants	LSS - Metabolic rate constant	LSS-KM	1/d	0
Org. rate constants	CAR - Metabolic rate constant	CAR-KM	1/d	0
Org. rate constants	SMB - Metabolic rate constant	SMB-KM	1/d	0
Org. rate constants	NPM - Metabolic rate constant	NPM-KM	1/d	0
<b>Selected values</b>	BIF concentration (clam)	BIF	µg/kg ww	4.2
<b>Selected values</b>	EIC concentration (crayfish)	EIC	µg/kg ww	1
<b>Selected values</b>	SCL concentration (sculpin)	SCL	µg/kg ww	9.5
<b>Selected values</b>	LSS concentration (largescale sucker)	LSS	µg/kg ww	11
<b>Selected values</b>	CAR concentration (carp)	CAR	µg/kg ww	13
<b>Selected values</b>	SMB concentration (smallmouth bass)	SMB	µg/kg ww	10
<b>Selected values</b>	NPM concentration (northern pikeminnow)	NPM	µg/kg ww	
<b>Detects only</b>	BIF concentration (clam)	BIF	µg/kg ww	4.2
<b>Detects only</b>	EIC concentration (crayfish)	EIC	µg/kg ww	1.9
<b>Detects only</b>	SCL concentration (sculpin)	SCL	µg/kg ww	12
<b>Detects only</b>	LSS concentration (largescale sucker)	LSS	µg/kg ww	20
<b>Detects only</b>	CAR concentration (carp)	CAR	µg/kg ww	15
<b>Detects only</b>	SMB concentration (smallmouth bass)	SMB	µg/kg ww	12
<b>Detects only</b>	NPM concentration (northern pikeminnow)	NPM	µg/kg ww	
<b>all empirical data</b>	BIF concentration (clam)	BIF	µg/kg ww	4.2
<b>all empirical data</b>	EIC concentration (crayfish)	EIC	µg/kg ww	1
<b>all empirical data</b>	SCL concentration (sculpin)	SCL	µg/kg ww	9.5
<b>all empirical data</b>	LSS concentration (largescale sucker)	LSS	µg/kg ww	11
<b>all empirical data</b>	CAR concentration (carp)	CAR	µg/kg ww	13
<b>all empirical data</b>	SMB concentration (smallmouth bass)	SMB	µg/kg ww	10
<b>all empirical data</b>	NPM concentration (northern pikeminnow)	NPM	µg/kg ww	6.4

Parameter Type	Parameter Description	Symbol	Units	47940
Physical / Chemical	Organic carbon content of sediment	OCSS	unitless	0.0171
Physical / Chemical	Mean water temperature	TW	C	13.69418928
Physical / Chemical	Concentration of suspended soils	CPW	kg/L	1.40E-05
Bioavailable Fraction	Dissolved OC concentration in water	XDOC	kg/L	1.31E-06
PHY-specific biological	Lipid fraction of organism	PHY-VLB	fraction	0.001225109
PHY-specific biological	Water content fraction of organism	PHY-VWB	fraction	0.947163613
PHY-specific biological	Growth rate constant	PHY-KG	1/d	0.093635253
ZOO-specific biological	Weight	ZOO-WB	kg	1.7E-07
ZOO-specific biological	Lipid fraction of organism	ZOO-VLB	fraction	0.010725222
ZOO-specific biological	Water content fraction of organism	ZOO-VWB	fraction	0.820237252
BIF-specific biological	Weight	BIF-WB	kg	0.001257289
BIF-specific biological	Lipid fraction of organism	BIF-VLB	fraction	0.022248037
BIF-specific biological	Water content fraction of organism	BIF-VWB	fraction	0.863274083
BIF-specific biological	Fraction of pore water ventilated	BIF-FPW	unitless	0.052688338
BIC-Specific Biological	Weight	BIC-WB	kg	4.80E-06
BIC-Specific Biological	Lipid fraction of organism	BIC-VLB	fraction	0.014234069
BIC-Specific Biological	Water content fraction of organism	BIC-VWB	fraction	0.803522652
BIC-Specific Biological	Fraction of pore water ventilated	BIC-FPW	unitless	0.069502945
EIC-Specific Biological	Weight	EIC-WB	kg	0.043831184
EIC-Specific Biological	Lipid fraction of organism	EIC-VLB	fraction	0.007624181
EIC-Specific Biological	Water content fraction of organism	EIC-VWB	fraction	0.737757493
EIC-Specific Biological	Fraction of pore water ventilated	EIC-FPW	unitless	0.027600468
SCL-Specific Biological	Weight	SCL-WB	kg	0.019973073
SCL-Specific Biological	Lipid fraction of organism	SCL-VLB	fraction	0.041589067
SCL-Specific Biological	Water content fraction of organism	SCL-VWB	fraction	0.751342484
SCL-Specific Biological	Fraction of pore water ventilated	SCL-FPW	unitless	0.044743776
LSS-Specific Biological	Weight	LSS-WB	kg	0.803933281
LSS-Specific Biological	Lipid fraction of organism	LSS-VLB	fraction	0.073320748
LSS-Specific Biological	Water content fraction of organism	LSS-VWB	fraction	0.71364571
CAR-Specific Biological	Weight	CAR-WB	kg	2.504577005
CAR-Specific Biological	Lipid fraction of organism	CAR-VLB	fraction	0.093503651
CAR-Specific Biological	Water content fraction of organism	CAR-VWB	fraction	0.684286952
SMB-Specific Biological	Weight	SMB-WB	kg	0.352442399
SMB-Specific Biological	Lipid fraction of organism	SMB-VLB	fraction	0.050655622
SMB-Specific Biological	Water content fraction of organism	SMB-VWB	fraction	0.71357333
NPM-Specific Biological	Weight	NPM-WB	kg	0.598644014
NPM-Specific Biological	Lipid fraction of organism	NPM-VLB	fraction	0.063093672
NPM-Specific Biological	Water content fraction of organism	NPM-VWB	fraction	0.712772706
BIF prey (lower grid)	BIF consumption of SED	BIF-SED	fraction	0.779283649
BIC prey (lower grid)	BIC consumption of SED	BIC-SED	fraction	0.909489056
EIC prey (lower grid)	EIC consumption of SED	EIC-SED	fraction	0.026865433
EIC prey (lower grid)	EIC consumption of PHY	EIC-PHY	fraction	0.126584093
EIC prey (lower grid)	EIC consumption of ZOO	EIC-ZOO	fraction	0.195417815
EIC prey (lower grid)	EIC consumption of BIF	EIC-BIF	fraction	0.244261263
EIC prey (lower grid)	EIC consumption of BIC	EIC-BIC	fraction	0.520593241
SCL prey (lower grid)	SCL consumption of SED	SCL-SED	fraction	0.031245268
SCL prey (lower grid)	SCL consumption of ZOO	SCL-ZOO	fraction	0.025735855
SCL prey (lower grid)	SCL consumption of BIF	SCL-BIF	fraction	0.305400163
SCL prey (lower grid)	SCL consumption of BIC	SCL-BIC	fraction	0.496355823
SCL prey (lower grid)	SCL consumption of EIC	SCL-EIC	fraction	0.081368699
LSS prey (lower grid)	LSS consumption of SED	LSS-SED	fraction	0.141938177
LSS prey (lower grid)	LSS consumption of PHY	LSS-PHY	fraction	0.143035269
LSS prey (lower grid)	LSS consumption of ZOO	LSS-ZOO	fraction	0.187168984

LSS prey (lower grid)	LSS consumption of BIF	LSS-BIF	fraction	0.069939898
LSS prey (lower grid)	LSS consumption of BIC	LSS-BIC	fraction	0.255575726
LSS prey (lower grid)	LSS consumption of EIC	LSS-EIC	fraction	0.157198082
CAR prey (lower grid)	CAR consumption of SED	CAR-SED	fraction	0.041259298
CAR prey (lower grid)	CAR consumption of PHY	CAR-PHY	fraction	0.331306263
CAR prey (lower grid)	CAR consumption of BIF	CAR-BIF	fraction	0.140932977
CAR prey (lower grid)	CAR consumption of BIC	CAR-BIC	fraction	0.475563289
SMB prey (lower grid)	SMB consumption of BIC	SMB-BIC	fraction	0.273523362
SMB prey (lower grid)	SMB consumption of EIC	SMB-EIC	fraction	0.190610894
SMB prey (lower grid)	SMB consumption of SCL	SMB-SCL	fraction	0.657263522
NPM prey (lower grid)	NPM consumption of PHY	NPM-PHY	fraction	0.094252314
NPM prey (lower grid)	NPM consumption of BIF	NPM-BIF	fraction	0.062163687
NPM prey (lower grid)	NPM consumption of BIC	NPM-BIC	fraction	0.394738166
NPM prey (lower grid)	NPM consumption of EIC	NPM-EIC	fraction	0.328819639
NPM prey (lower grid)	NPM consumption of SCL	NPM-SCL	fraction	0.23308087

Uncalibrated Values	Calibrated values (47940)
0.0171	0.0171
13.9	13.69418928
0.0000113	1.40E-05
0.00000138	1.31E-06
0.00123	0.001225109
0.955	0.947163613
0.08	0.093635253
0.00000014	1.7E-07
0.01	0.010725222
0.9	0.820237252
0.00125	0.001257289
0.022	0.022248037
0.86	0.863274083
0.05	0.052688338
0.00000533	4.80E-06
0.015	0.014234069
0.8	0.803522652
0.05	0.069502945
0.0435	0.043831184
0.0078	0.007624181
0.74	0.737757493
0.05	0.027600468
0.0196	0.019973073
0.041	0.041589067
0.75	0.751342484
0.05	0.044743776
0.794	0.803933281
0.076	0.073320748
0.71	0.71364571
2.48	2.504577005
0.088	0.093503651
0.69	0.684286952
0.395	0.352442399
0.054	0.050655622
0.71	0.71357333
0.558	0.598644014
0.053	0.063093672
0.719	0.712772706
0.7	0.779283649
0.95	0.909489056
0.02	0.026865433
0.1	0.126584093
0.1	0.195417815
0.18	0.244261263
0.6	0.520593241
0	0.031245268
0	0.025735855
0.15	0.305400163
0.8	0.496355823
0.05	0.081368699
0.05	0.141938177
0.25	0.143035269
0.15	0.187168984

0.1	0.069939898
0.25	0.255575726
0.2	0.157198082
0.05	0.041259298
0.45	0.331306263
0.1	0.140932977
0.4	0.475563289
0.05	0.273523362
0.05	0.190610894
0.9	0.657263522
0.04	0.094252314
0.05	0.062163687
0.26	0.394738166
0.4	0.328819639
0.25	0.23308087